

Machinery

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Change in 2005 from 2004:

U.S. trade deficit: Increased by \$9.4 billion (29 percent) to \$41.2 billion

U.S. exports: Increased by \$5.3 billion (7 percent) to \$82.1 billion

U.S. imports: Increased by \$14.7 billion (14 percent) to \$123.3 billion

The U.S. trade deficit in machinery continued to expand in 2005, increasing \$9.4 billion (29 percent) to \$41.2 billion. The strongest advances in imports from leading suppliers were exhibited by Korea (34 percent), China (21 percent), and Germany (14 percent) (table MT-1). The increase in sector imports from Korea reflected larger volumes of fractional compressors.¹

The increase in U.S. machinery imports was broad-based, with major increases in household appliances² (\$2.0 billion); electric motors, generators and related equipment (\$1.5 billion); miscellaneous machinery (\$1.3 billion); air conditioning equipment (\$999 million); major household appliances and parts (\$920 million); and taps, cocks, and valves and similar devices (\$851 million) (table MT-2). The growth in imports was driven by several factors such as continued expansion of the U.S. economy, continued historically low interest rates, and a strong U.S. housing market.

China, surpassing Mexico as the largest exporter of machinery to the United States, accounted for 17 percent (\$21.3 billion) of U.S. imports (table MT-1). Mexico supplied 16 percent (\$20.2 billion) of U.S. imports.³ Japan, with 15 percent, was the third-leading import source (\$18.6 billion) of machinery in 2005.

In 2005, Canada continued to be the largest market for U.S. exports of machinery, accounting for 22 percent of such exports, followed by Mexico and Japan with 14 percent and 6 percent, respectively (table MT-1). As with Mexico, the Canadian machinery market is highly integrated with the U.S. market, reflecting the NAFTA and production sharing programs.

The leading export growth sectors in 2005 were miscellaneous machinery (\$865 million); farm and garden machinery and equipment (\$787 million); taps, cocks, valves, and similar devices (\$550 million); and air-conditioning equipment and parts (\$546 million).

The growth in U.S. machinery exports was tempered by declining semiconductor manufacturing equipment (SME) exports. The \$1.8 billion (14 percent) decline in SME exports was mainly due to the cooling of growth in the cyclical global semiconductor industry, which is the principal consuming industry of SME. The 2004 period was a boom

¹ Fractional compressors are most commonly used in appliances and commercial applications.

² This category includes commercial applications.

³ Since 2001, Mexico had been consistently the leading source of machinery imports. The machinery industries in the United States and Mexico are highly integrated with specialized trade programs (e.g., production sharing), leading to large volumes of two-way trade in machinery.

Table MT-1

Machinery: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 2001–2005¹

Item	2001	2002	2003	2004	2005	Change, 2005 from 2004	
						Absolute	Percent
Million dollars							
U.S. exports of domestic merchandise:							
Mexico	10,263	9,183	9,086	10,078	11,418	1,339	13.3
Canada	15,949	15,207	15,310	16,214	18,008	1,794	11.1
China	2,356	2,730	3,091	4,729	4,275	-454	-9.6
Japan	4,133	3,328	3,493	4,629	4,563	-66	-1.4
Germany	3,413	2,625	2,581	2,906	3,372	465	16.0
Korea	2,452	2,521	2,713	3,293	3,808	515	15.6
Taiwan	2,954	3,217	2,384	4,865	4,264	-600	-12.3
United Kingdom	3,293	2,731	2,475	2,614	2,734	121	4.6
Italy	957	786	942	899	917	18	2.0
France	1,955	1,622	1,539	1,819	1,871	52	2.9
All other	21,828	19,312	19,848	24,698	26,857	2,159	8.7
Total	69,552	63,262	63,462	76,744	82,087	5,342	7.0
EU-15	13,998	11,669	11,671	12,929	14,163	1,233	9.5
EU-25	14,400	12,025	12,091	13,403	14,789	1,387	10.3
OPEC	2,717	2,476	2,307	3,204	3,576	372	11.6
Latin America	16,223	13,627	13,408	15,180	17,720	2,540	16.7
CBERA	1,577	1,357	1,366	1,519	1,942	423	27.9
Asia	17,215	16,799	16,692	24,591	23,355	-1,237	-5.0
Sub-Saharan Africa	669	672	714	882	895	13	1.5
Central and Eastern Europe	397	395	432	510	653	143	28.1
U.S. imports of merchandise for consumption:							
Mexico	14,821	16,321	16,596	18,029	20,173	2,144	11.9
Canada	9,876	9,810	10,071	11,233	12,129	896	8.0
China	8,620	10,467	13,922	17,585	21,314	3,728	21.2
Japan	14,286	12,689	14,013	17,042	18,589	1,547	9.1
Germany	9,648	8,902	9,985	12,039	13,711	1,672	13.9
Korea	2,297	2,554	2,505	2,771	3,725	953	34.4
Taiwan	2,872	2,743	2,800	3,195	3,236	41	1.3
United Kingdom	3,420	3,002	2,955	3,322	3,564	242	7.3
Italy	3,499	3,519	3,952	4,559	5,005	446	9.8
France	2,027	1,919	1,980	2,308	2,667	359	15.6
All other	13,500	13,254	14,359	16,480	19,144	2,664	16.2
Total	84,867	85,181	93,138	108,564	123,258	14,693	13.5
EU-15	24,642	23,076	25,086	28,717	32,694	3,977	13.9
EU-25	25,373	23,839	25,921	29,755	33,892	4,138	13.9
OPEC	233	219	221	311	331	20	6.5
Latin America	15,899	17,469	18,018	19,812	22,465	2,653	13.4
CBERA	220	235	324	442	580	139	31.4
Asia	30,675	31,163	36,166	44,313	50,927	6,614	14.9
Sub-Saharan Africa	264	231	182	196	274	78	39.9
Central and Eastern Europe	789	836	914	1,112	1,320	208	18.7

See footnote(s) at end of table.

Table MT-1—*Continued*

Machinery: U.S. exports of domestic merchandise, imports for consumption, and merchandise trade balance, by selected countries and country groups, 2001–2005¹

						Change, 2005 from 2004	
Item	2001	2002	2003	2004	2005	Absolute	Percent
	Million dollars						
U.S. merchandise trade balance:							
Mexico	-4,558	-7,138	-7,510	-7,951	-8,755	-805	-10.1
Canada	6,073	5,396	5,240	4,981	5,879	898	18.0
China	-6,265	-7,737	-10,831	-12,856	-17,039	-4,182	-32.5
Japan	-10,153	-9,361	-10,520	-12,413	-14,026	-1,613	-13.0
Germany	-6,235	-6,278	-7,404	-9,132	-10,339	-1,206	-13.2
Korea	154	-33	208	521	83	-439	-84.1
Taiwan	82	474	-416	1,669	1,028	-641	-38.4
United Kingdom	-127	-271	-480	-708	-830	-122	-17.2
Italy	-2,542	-2,732	-3,011	-3,660	-4,088	-428	-11.7
France	-72	-297	-441	-489	-796	-307	-62.7
All other	8,328	6,058	5,489	8,218	7,713	-505	-6.2
Total	-15,315	-21,919	-29,676	-31,820	-41,171	-9,351	-29.4
EU-15	-10,644	-11,408	-13,415	-15,787	-18,532	-2,744	-17.4
EU-25	-10,974	-11,814	-13,830	-16,352	-19,103	-2,751	-16.8
OPEC	2,484	2,257	2,086	2,893	3,245	352	12.2
Latin America	324	-3,842	-4,610	-4,632	-4,745	-113	-2.4
CBERA	1,357	1,122	1,043	1,077	1,362	285	26.5
Asia	-13,460	-14,364	-19,474	-19,721	-27,572	-7,851	-39.8
Sub-Saharan Africa	406	441	532	686	621	-65	-9.4
Central and Eastern Europe	-392	-441	-481	-602	-667	-64	-10.7

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data. The countries shown are those with the largest total U.S. trade (U.S. imports plus exports) in these products in 2005.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table MT-2
Leading changes in U.S. exports and imports of machinery, 2001–2005¹

Industry/commodity group	2001	2002	2003	2004	2005	Change, 2005 from 2004	
						Absolute	Percent
	Million dollars						
U.S. EXPORTS:							
Increases:							
Miscellaneous machinery (MM098)	7,366	6,793	6,409	7,434	8,299	865	11.6
Farm and garden machinery and equipment (MM078)	4,565	4,747	5,109	6,098	6,885	787	12.9
Taps, cocks, valves, and similar devices (MM088)	3,351	3,202	3,329	3,685	4,235	550	14.9
Air-conditioning equipment and parts (MM071)	5,694	5,318	5,334	5,794	6,340	546	9.4
Decreases:							
Semiconductor manufacturing machinery (MM087A) . .	8,044	6,972	7,242	12,790	10,971	-1,819	-14.2
All other	40,532	36,231	36,040	40,945	45,358	4,413	10.8
TOTAL	69,552	63,262	63,462	76,744	82,087	5,342	7.0
U.S. IMPORTS:							
Increases:							
Household appliances, including commercial applications (MM073)	8,356	9,587	10,782	12,489	14,464	1,975	15.8
Electric motors, generators, and related equipment (MM091)	7,646	7,177	6,811	7,020	8,533	1,514	21.6
Miscellaneous machinery (MM098)	6,455	6,133	6,917	8,058	9,343	1,285	16.0
Air-conditioning equipment and parts (MM071)	6,081	6,674	7,403	8,533	9,531	999	11.7
Taps, cocks, valves, and similar devices (MM088)	4,809	5,156	5,500	6,738	7,589	851	12.6
Metal cutting machine tools and machine tool accessories (MM084)	3,407	2,558	2,704	3,424	4,134	710	20.7
Farm and garden machinery and equipment (MM078) .	3,602	3,898	4,645	6,216	6,900	684	11.0
All other	44,511	43,999	48,375	56,088	62,763	6,675	11.9
TOTAL	84,867	85,181	93,138	108,564	123,258	14,693	13.5

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

Note.—Calculations based on unrounded data.

Source: Compiled from official statistics of the U.S. Department of Commerce.

year for the semiconductor industry, which experienced 24 percent growth, translating into an increase in global demand for SME, and U.S. SME exports. In 2005, however, the semiconductor industry grew by only 8 percent, ultimately resulting in a decrease in U.S. exports in 2005. Two trends influencing SME are (1) the main consumers of SME, semiconductor manufacturers, have continued to shift front-end semiconductor production overseas, mainly to Asia; and (2) semiconductor firms known as foundries,⁴ which focus on production (not design) and which are mainly based in Taiwan, have become very popular. This has led demand for U.S. SME to become more sensitive to foreign markets, mainly in Asia, than to the U.S. market.⁵ Thus, a change in global demand for semiconductors will typically result in a similar change in U.S. SME exports.

The largest U.S. machinery import increase during 2005 was in the household appliances (residential and commercial) sector. A strong U.S. economy, relatively low interest rates, and strong demand for residential homes contributed to a \$920 million (27 percent) increase, to \$4.4 billion in total imports of household appliances and parts. U.S. imports of major household appliances and parts from Mexico registered the largest increase, rising by \$395 million (34 percent) to \$1.5 billion. Refrigerators larger than 20 cubic feet and household appliance parts accounted for \$1.2 billion (78 percent) of total imports of major household appliances from Mexico. U.S. imports of major appliances from China increased by \$114 million (25 percent) to \$577 million. Major household appliance products imported from China include small-sized refrigerators under 16 cubic feet, refrigerated display cases, freezers, and parts for appliances.⁶

U.S. imports of commercial appliances increased by approximately \$2 billion (16 percent) to \$14.5 billion in 2005. Mexico, the leading foreign supplier in 2005, has emerged as a competitor in the U.S. import market. Major multinational appliance producers such as Electrolux, Whirlpool, Samsung, LG and GE and smaller commercial appliance firms have either added plant capacity or established new production facilities in Mexico.⁷ Imports from Mexico consisted largely of commercial appliances for institutional markets such as refrigerators, freezers, and display cases. U.S. imports of commercial appliances from China also increased during the period, and consisted principally of microwave ovens, vacuum cleaners, small refrigerators, and refrigerated display cases destined largely for institutional markets such as commercial and retail establishments, restaurants, and school cafeterias.

The second-largest U.S. machinery import increase during 2005 was in the electric motors, generators, and related equipment sector. This category increased by approximately \$1.5 billion (22 percent) to \$8.5 billion. Electric motors and generators from Mexico increased from \$1.7 billion to \$1.9 billion (8.2 percent) in 2005, accounting for 39 percent of total U.S. imports of this product. U.S. imports of electric motors and generators from China also increased from \$559 million to \$690 million (23 percent) in 2005; however, such imports accounted for a much smaller share of total U.S. imports of this product (14 percent). Two other products that contributed to the import increase were (1) AC generators (alternators) exceeding 750 KVA but not exceeding 10,000 KVA,⁸ and (2) gear motors, single phase

⁴ Foundries are semiconductor companies that specialize in semiconductor fabrication, as opposed to semiconductor design. Foundries provide services to “fabless” semiconductor companies that only design semiconductors, and to integrated device manufacturers (IDMs) that outsource some semiconductor production to foundries, especially during business upturns when IDMs may not have sufficient capacity to meet demand. The foundry model was pioneered in Taiwan in the late 1980s and has since become very popular in the global semiconductor industry.

⁵ McArdle and Wang, “Semiconductor Equipment,” 10-13.

⁶ Delano, “Appliance Design,” 21.

⁷ Wolf, “Whirlpool Expands Production,” 46.

⁸ Kilovolt-ampere (KVA) is a unit of electrical power equal to 1000 volt-amperes.

exceeding 735W but under 746W.⁹ However, electric motors dominated this product group with the largest increase from \$655 thousand to \$5.8 million (800 percent) in 2005. This increase can be attributed to increasing gasoline prices for motor vehicles which led to increased usage of hybrid vehicles, state government incentives to own alternative fuel vehicles (e.g., hybrid vehicles and electric drive vehicles¹⁰), and greater attention to environmentally friendly transportation.

In 2005, air conditioning equipment and taps, cocks, valves, and similar devices showed strong U.S. import growth, increasing \$999 million (12 percent) to \$9.5 billion. China and Mexico continue to be leading suppliers of these products accounting for 10 percent and 11 percent, respectively, of total U.S. imports of air-conditioning equipment and parts. Imports of window air-conditioners from China, which are largely seasonal and highly dependent on hot weather patterns in the United States, accounted for approximately \$752 million (82 percent) of the \$920 million in total imports of these products. U.S. imports of air-conditioning equipment and parts from Mexico increased by \$194 million (22 percent) to approximately \$1.1 billion in 2005. Approximately 77 percent of total U.S. imports of air-conditioning products from Mexico consisted of parts for air-conditioning equipment such as heat pumps, rotors and stators for refrigeration compressors, including air and gas compressors used for construction and highway infrastructure projects.

U.S. imports of valves rose significantly during 2005. Imports from China, the dominant supplier, increased by \$278 million (21 percent) to \$1.2 billion during the period. The largest category of valve imports consisted primarily of low-technology, labor-intensive valves used for plumbing fixtures, wet and dry fire protection sprinkler systems, as well as water and waste water utility systems and power generation applications. A healthy U.S. economy and relatively low interest rates contributed to record growth rates in commercial building and residential construction in 2005.¹¹

Other notable U.S. import increases for machinery include metal-cutting machine tools and machine tool accessories (20.7 percent) and farm and garden machinery and equipment (11 percent). The increase in U.S. imports of metal-cutting machine tools and machine tool accessories in 2005 was tied to U.S. manufacturers investing in new machine tool technology to improve productivity, especially in the aerospace, defense, energy, and medical manufacturing industries.¹²

The 2005 increase in U.S. imports of farm and garden equipment was largely the result of higher prices for farm machinery.¹³ The import increase was most pronounced in the tractors for agricultural use sector, rising by \$294 million (12 percent) to \$2.7 billion in 2005.¹⁴

⁹ Watt (W) is an International System unit of power equal to one joule per second.

¹⁰ Other types of battery electric vehicles include low-speed, airport ground support equipment, and off-road industrial equipment such as fork lifts. Electric Drive Transportation Association, "Battery Electric Vehicles."

¹¹ Dismal Scientist, "United States GDP."

¹² Association of Machine Tool Distributors, "January Machine Tool Consumption 11.3% Higher Than in 2005."

¹³ The estimated U.S. average index of prices paid for farm machinery in 2005 was up by 9 points to 171, compared to 2004. Calculated from U.S. Department of Agriculture, Economic Research Service, "Index of Prices Received and Paid by Farmers, U.S. Average."

¹⁴ Although tractors suitable for agriculture registered an import value of \$2.7 billion, the number of tractors imported decreased by 23,989 (10 percent) to 204,136, thereby increasing the trade-weighted average unit import value by \$2,691 (25 percent) to \$13,312 per tractor.

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Table MT-3
Machinery : U.S. trade for industry/commodity groups and subgroups, 2001-2005¹

							Change, 2005 from 2004	
USITC code ²	Industry/commodity group	2001	2002	2003	2004	2005	Absolute	Percent
Million dollars								
MM068	Wiring harnesses for motor vehicles:							
	Exports	866	961	868	878	939	61	7.0
	Imports	4,684	5,302	5,272	5,434	5,782	349	6.4
	Trade balance	-3,818	-4,341	-4,404	-4,555	-4,843	-287	-6.3
MM069	Pumps for motor vehicles:							
	Exports	642	681	690	771	743	-28	-3.6
	Imports	788	913	992	1,173	1,288	116	9.9
	Trade balance	-147	-232	-302	-402	-546	-144	-35.8
MM070	Pumps for liquids:							
	Exports	2,561	2,393	2,412	2,725	2,963	238	8.7
	Imports	1,801	1,883	2,180	2,673	3,302	629	23.5
	Trade balance	760	510	232	51	-339	-391	(³)
MM071	Air-conditioning equipment and parts:							
	Exports	5,694	5,318	5,334	5,794	6,340	546	9.4
	Imports	6,081	6,674	7,403	8,533	9,531	999	11.7
	Trade balance	-387	-1,356	-2,070	-2,739	-3,192	-453	-16.5
MM072	Industrial thermal-processing equipment and furnaces:							
	Exports	2,496	2,064	2,099	2,789	3,220	431	15.4
	Imports	1,641	1,671	1,660	1,880	2,350	470	25.0
	Trade balance	855	393	439	910	870	-39	-4.3
MM073	Household appliances, including commercial applications:							
	Exports	5,226	4,892	4,810	5,193	5,733	540	10.4
	Imports	8,356	9,587	10,782	12,489	14,464	1,975	15.8
	Trade balance	-3,130	-4,695	-5,971	-7,296	-8,731	-1,435	-19.7
MM073A	Major household appliances and parts:							
	Exports	1,708	1,610	1,655	1,773	1,991	219	12.3
	Imports	1,986	2,444	2,868	3,440	4,360	920	26.8
	Trade balance	-278	-834	-1,212	-1,667	-2,369	-702	-42.1
MM074	Centrifuges and filtering and purifying equipment:							
	Exports	3,208	3,045	3,022	3,277	3,505	228	7.0
	Imports	2,275	2,403	2,663	3,088	3,192	104	3.4
	Trade balance	933	642	358	189	313	124	65.9

See footnote(s) at end of table.

Table MT-3--Continued

Machinery : U.S. trade for industry/commodity groups and subgroups, 2001-2005¹

Machinery: Printing and related machinery, machinery groups and subgroups, 2001-2005							Change, 2005 from 2004	
USITC code ²	Industry/commodity group	2001	2002	2003	2004	2005	Absolute	Percent
Million dollars								
MM075	Wrapping, packaging, and can-sealing machinery:							
	Exports	711	639	637	707	727	20	2.8
	Imports	1,302	1,333	1,505	1,725	1,811	86	5.0
	Trade balance	-591	-694	-868	-1,018	-1,084	-67	-6.6
MM076	Scales and weighing machinery:							
	Exports	175	164	155	155	148	-7	-4.4
	Imports	279	293	375	525	577	52	10.0
	Trade balance	-104	-129	-220	-370	-429	-59	-16.0
MM077	Mineral processing machinery:							
	Exports	582	485	545	669	811	142	21.3
	Imports	576	565	627	797	1,034	238	29.8
	Trade balance	6	-81	-82	-128	-223	-95	-74.3
MM078	Farm and garden machinery and equipment:							
	Exports	4,565	4,747	5,109	6,098	6,885	787	12.9
	Imports	3,602	3,898	4,645	6,216	6,900	684	11.0
	Trade balance	963	848	464	-117	-15	102	87.2
MM079	Industrial food-processing and related machinery:							
	Exports	576	606	558	601	710	109	18.1
	Imports	537	570	684	758	839	81	10.7
	Trade balance	40	36	-126	-157	-129	28	17.8
MM080	Pulp, paper, and paperboard machinery:							
	Exports	678	560	648	662	660	-3	-0.4
	Imports	1,091	719	867	938	948	10	1.1
	Trade balance	-414	-159	-219	-276	-289	-13	-4.7
MM081	Printing and related machinery:							
	Exports	1,232	1,136	1,215	1,300	1,443	143	11.0
	Imports	1,929	2,001	4,844	5,802	6,340	538	9.3
	Trade balance	-697	-865	-3,628	-4,502	-4,897	-395	-8.8
MM082	Textile machinery:							
	Exports	897	871	810	897	991	95	10.6
	Imports	1,411	1,314	1,316	1,410	1,561	151	10.7
	Trade balance	-515	-442	-506	-513	-569	-56	-11.0

See footnote(s) at end of table.

Table MT-3--Continued
Machinery : U.S. trade for industry/commodity groups and subgroups, 2001-2005¹

USITC code ²	Industry/commodity group	2001	2002	2003	2004	2005	Change, 2005 from 2004	
							Absolute	Percent
Million dollars								
MM083	Metal rolling mills:							
	Exports	210	169	182	243	314	71	29.2
	Imports	180	163	210	150	207	58	38.5
	Trade balance	30	7	-27	93	107	13	14.3
MM084	Metal cutting machine tools and machine tool accessories:							
	Exports	1,809	1,634	1,585	1,749	2,037	288	16.5
	Imports	3,407	2,558	2,704	3,424	4,134	710	20.7
	Trade balance	-1,598	-924	-1,118	-1,674	-2,097	-422	-25.2
MM085	Metal forming machine tools:							
	Exports	743	652	691	733	851	118	16.1
	Imports	1,331	846	933	1,019	1,196	177	17.3
	Trade balance	-588	-194	-242	-286	-345	-59	-20.5
MM086	Non-metalworking machine tools:							
	Exports	807	768	711	1,083	1,110	27	2.5
	Imports	1,276	1,242	1,330	1,626	1,694	68	4.2
	Trade balance	-468	-474	-619	-543	-584	-41	-7.5
MM087	Semiconductor manufacturing equipment and robotics:							
	Exports	8,553	7,341	7,599	13,257	11,435	-1,823	-13.7
	Imports	4,389	3,679	3,152	4,151	4,515	365	8.8
	Trade balance	4,164	3,662	4,446	9,107	6,919	-2,187	-24.0
MM087A	Semiconductor manufacturing machinery:							
	Exports	8,044	6,972	7,242	12,790	10,971	-1,819	-14.2
	Imports	3,947	3,304	2,750	3,586	3,857	271	7.6
	Trade balance	4,096	3,668	4,492	9,204	7,113	-2,090	-22.7
MM088	Taps, cocks, valves, and similar devices:							
	Exports	3,351	3,202	3,329	3,685	4,235	550	14.9
	Imports	4,809	5,156	5,500	6,738	7,589	851	12.6
	Trade balance	-1,458	-1,954	-2,171	-3,054	-3,354	-301	-9.8
MM089	Mechanical power transmission equipment:							
	Exports	939	936	1,054	1,197	1,398	201	16.8
	Imports	2,004	1,994	2,222	2,638	3,252	614	23.3
	Trade balance	-1,066	-1,057	-1,168	-1,441	-1,854	-413	-28.6

See footnote(s) at end of table.

Table MT-3--Continued

Machinery : U.S. trade for industry/commodity groups and subgroups, 2001-2005¹

							Change, 2005 from 2004	
USITC code ²	Industry/commodity group	2001	2002	2003	2004	2005	Absolute	Percent
Million dollars								
MM090	Boilers, turbines, and related machinery:							
	Exports	1,106	892	875	909	1,124	214	23.6
	Imports	1,204	1,514	881	839	1,098	259	30.8
	Trade balance	-98	-622	-6	70	26	-44	-63.2
MM091	Electric motors, generators, and related equipment:							
	Exports	4,691	3,923	4,031	4,673	5,114	440	9.4
	Imports	7,646	7,177	6,811	7,020	8,533	1,514	21.6
	Trade balance	-2,954	-3,255	-2,780	-2,346	-3,420	-1,073	-45.7
MM092	Electrical transformers, static converters, and inductors:							
	Exports	2,436	1,784	1,767	1,805	1,895	91	5.0
	Imports	5,134	4,707	4,680	5,496	5,973	477	8.7
	Trade balance	-2,698	-2,923	-2,912	-3,692	-4,078	-386	-10.5
MM093	Portable electric handtools:							
	Exports	291	212	191	180	185	4	2.5
	Imports	1,185	1,434	1,777	2,122	2,424	301	14.2
	Trade balance	-894	-1,222	-1,586	-1,942	-2,239	-297	-15.3
MM094	Nonelectrically powered handtools and parts thereof:							
	Exports	563	549	578	907	1,264	357	39.4
	Imports	901	961	992	1,235	1,396	161	13.0
	Trade balance	-338	-412	-414	-328	-132	197	59.9
MM095	Electric lamps (bulbs) and portable electric lights:							
	Exports	799	750	721	786	859	74	9.4
	Imports	1,785	1,687	1,748	2,094	2,202	107	5.1
	Trade balance	-986	-937	-1,028	-1,309	-1,342	-34	-2.6
MM096	Welding and soldering equipment:							
	Exports	703	635	618	818	872	54	6.6
	Imports	803	761	996	1,088	1,054	-34	-3.1
	Trade balance	-101	-126	-378	-270	-182	88	32.6
MM097	Nonautomotive insulated electrical wire and related products:							
	Exports	3,286	2,856	2,660	2,936	3,202	266	9.1
	Imports	3,203	3,076	3,208	3,903	4,693	791	20.3
	Trade balance	83	-220	-548	-966	-1,491	-525	-54.3

See footnote(s) at end of table.

Table MT-3--*Continued***Machinery : U.S. trade for industry/commodity groups and subgroups, 2001-2005¹**

Machinery, tools, and related machinery, commodity groups and subgroups, 2001-2005								
USITC code ²	Industry/commodity group	2001	2002	2003	2004	2005	Change, 2005 from 2004	
							Absolute	Percent
Million dollars								
MM098	Miscellaneous machinery:							
	Exports	7,366	6,793	6,409	7,434	8,299	865	11.6
	Imports	6,455	6,133	6,917	8,058	9,343	1,285	16.0
	Trade balance	911	660	-508	-624	-1,044	-420	-67.2
MM099	Molds and molding machinery:							
	Exports	1,791	1,605	1,550	1,833	2,074	241	13.2
	Imports	2,803	2,969	3,262	3,525	4,035	510	14.5
	Trade balance	-1,012	-1,363	-1,712	-1,691	-1,960	-269	-15.9

¹Import values are based on customs value; export values are based on f.a.s. value, U.S. port of export.

²This coding system is used by the U.S. International Trade Commission to identify major groupings and subgroupings of HTS import and export items for trade monitoring purposes

³Not meaningful for purposes of comparison.

Note.—Calculations based on unrounded data.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table MT-4

Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 2001–2005

USITC code	Industry/commodity group	2001	2002	2003	2004	2005	Percent change, 2005 from 2004
MM068	Wiring harnesses for motor vehicles:						
	Number of establishments	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	Employees (thousands)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	Capacity utilization (percent)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	U.S. shipments (million dollars)	5,740	6,450	6,100	6,270	6,300	0.5
	U.S. exports (million dollars)	866	961	868	878	939	7.0
	U.S. imports (million dollars)	4,684	5,302	5,272	5,434	5,782	6.4
	Apparent U.S. consumption (million dollars)	9,558	10,791	10,504	10,825	11,143	2.9
	Trade balance (million dollars)	-3,818	-4,341	-4,404	-4,555	-4,843	-6.3
	Ratio of imports to consumption (percent)	49.0	49.1	50.2	50.2	51.9	3.4
	Ratio of exports to shipments (percent)	15.1	14.9	14.2	14.0	14.9	6.4
MM069	Pumps for motor vehicles:						
	Number of establishments	215	225	202	196	(¹)	(¹)
	Employees (thousands)	28.0	30.0	27.0	23.0	(¹)	(¹)
	Capacity utilization (percent)	76	78	72	74	(¹)	(¹)
	U.S. shipments (million dollars)	3,223	3,384	3,046	3,000	3,100	3.3
	U.S. exports (million dollars)	642	681	690	771	743	-3.6
	U.S. imports (million dollars)	788	913	992	1,173	1,288	9.9
	Apparent U.S. consumption (million dollars)	3,370	3,616	3,348	3,402	3,646	7.2
	Trade balance (million dollars)	-147	-232	-302	-402	-546	-35.8
	Ratio of imports to consumption (percent)	23.4	25.3	29.6	34.5	35.3	2.3
	Ratio of exports to shipments (percent)	19.9	20.1	22.7	25.7	24.0	-6.6
MM070	Pumps for liquids:						
	Number of establishments	485	475	453	446	512	14.8
	Employees (thousands)	37.0	35.0	31.0	26.0	32.0	23.1
	Capacity utilization (percent)	70	69	66	64	68	6.3
	U.S. shipments (million dollars)	6,936	6,867	6,660	6,594	7,253	10.0
	U.S. exports (million dollars)	2,561	2,393	2,412	2,725	2,963	8.7
	U.S. imports (million dollars)	1,801	1,883	2,180	2,673	3,302	23.5
	Apparent U.S. consumption (million dollars)	6,176	6,357	6,428	6,543	7,592	16.0
	Trade balance (million dollars)	760	510	232	51	-339	(²)
	Ratio of imports to consumption (percent)	29.2	29.6	33.9	40.9	43.5	6.4
	Ratio of exports to shipments (percent)	36.9	34.8	36.2	41.3	40.9	-1.0

See footnote(s) at end of table.

Table MT-4—Continued

Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 2001–2005

USITC code	Industry/commodity group	2001	2002	2003	2004	2005	Percent change, 2005 from 2004
MM071	Air-conditioning equipment and parts:						
	Number of establishments	1,295	1,240	1,265	1,252	1,310	4.6
	Employees (thousands)	155.0	142.0	134.0	132.0	142.0	7.6
	Capacity utilization (percent)	76	71	71	68	70	2.9
	U.S. shipments (million dollars)	28,111	23,894	24,372	24,859	28,837	16.0
	U.S. exports (million dollars)	5,694	5,318	5,334	5,794	6,340	9.4
	U.S. imports (million dollars)	6,081	6,674	7,403	8,533	9,531	11.7
	Apparent U.S. consumption (million dollars)	28,498	25,250	26,442	27,598	32,029	16.1
	Trade balance (million dollars)	-387	-1,356	-2,070	-2,739	-3,192	-16.5
	Ratio of imports to consumption (percent)	21.3	26.4	28.0	30.9	29.8	-3.6
	Ratio of exports to shipments (percent)	20.3	22.3	21.9	23.3	22.0	-5.6
MM072	Industrial thermal-processing equipment and furnaces:						
	Number of establishments	320	325	323	326	319	-2.1
	Employees (thousands)	32.0	32.0	32.0	30.0	28.0	-6.7
	Capacity utilization (percent)	66	67	66	62	58	-6.5
	U.S. shipments (million dollars)	3,564	3,599	3,675	3,749	3,861	3.0
	U.S. exports (million dollars)	2,496	2,064	2,099	2,789	3,220	15.4
	U.S. imports (million dollars)	1,641	1,671	1,660	1,880	2,350	25.0
	Apparent U.S. consumption (million dollars)	2,709	3,206	3,236	2,839	2,991	5.3
	Trade balance (million dollars)	855	393	439	910	870	-4.3
	Ratio of imports to consumption (percent)	60.6	52.1	51.3	66.2	78.6	18.7
	Ratio of exports to shipments (percent)	70.0	57.4	57.1	74.4	83.4	12.1
MM073	Household appliances, including commercial applications:						
	Number of establishments	98	95	99	93	95	2.2
	Employees (thousands)	55.0	53.0	53.0	50.0	53.0	6.0
	Capacity utilization (percent)	70	69	70	72	74	2.8
	U.S. shipments (million dollars)	15,741	15,427	15,736	16,129	17,258	7.0
	U.S. exports (million dollars)	5,226	4,892	4,810	5,193	5,733	10.4
	U.S. imports (million dollars)	8,356	9,587	10,782	12,489	14,464	15.8
	Apparent U.S. consumption (million dollars)	18,871	20,122	21,707	23,425	25,989	10.9
	Trade balance (million dollars)	-3,130	-4,695	-5,971	-7,296	-8,731	-19.7
	Ratio of imports to consumption (percent)	44.3	47.6	49.7	53.3	55.7	4.5
	Ratio of exports to shipments (percent)	33.2	31.7	30.6	32.2	33.2	3.1

See footnote(s) at end of table.

Table MT-4—Continued

Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 2001–2005

USITC code	Industry/commodity group	2001	2002	2003	2004	2005	Percent change, 2005 from 2004
MM073A	Major household appliances and parts:						
	Number of establishments	251	255	282	270	265	-1.9
	Employees (thousands)	75.0	76.0	78.0	72.0	73.0	1.4
	Capacity utilization (percent)	70	71	75	73	76	4.1
	U.S. shipments (million dollars)	14,259	14,544	15,126	15,504	16,589	7.0
	U.S. exports (million dollars)	1,708	1,610	1,655	1,773	1,991	12.3
	U.S. imports (million dollars)	1,986	2,444	2,868	3,440	4,360	26.8
	Apparent U.S. consumption (million dollars)	14,537	15,378	16,338	17,171	18,958	10.4
	Trade balance (million dollars)	-278	-834	-1,212	-1,667	-2,369	-42.1
	Ratio of imports to consumption (percent)	13.7	15.9	17.6	20.0	23.0	15.0
	Ratio of exports to shipments (percent)	12.0	11.1	10.9	11.4	12.0	5.3
MM075	Wrapping, packaging, and can-sealing machinery:						
	Number of establishments	813	813	813	808	780	-3.5
	Employees (thousands)	28.0	25.0	24.0	22.0	23.0	4.5
	Capacity utilization (percent)	60	62	60	66	69	4.5
	U.S. shipments (million dollars)	3,942.4	3,764.3	3,904.6	3,584.3	3,763.5	5.0
	U.S. exports (million dollars)	711	639	637	707	727	2.8
	U.S. imports (million dollars)	1,302	1,333	1,505	1,725	1,811	5.0
	Apparent U.S. consumption (million dollars)	4,533	4,458	4,773	4,602	4,848	5.3
	Trade balance (million dollars)	-591	-694	-868	-1,018	-1,084	-6.6
	Ratio of imports to consumption (percent)	28.7	29.9	31.5	37.5	37.4	-0.3
	Ratio of exports to shipments (percent)	18.0	17.0	16.3	19.7	19.3	-2.0
MM076	Scales and weighing machinery:						
	Number of establishments	115	113	111	110	97	-11.8
	Employees (thousands)	4.3	4.3	4.2	4.1	3.9	-4.9
	Capacity utilization (percent)	57	54	51	47	44	-6.4
	U.S. shipments (million dollars)	717	692	694	696	689	-1.0
	U.S. exports (million dollars)	175	164	155	155	148	-4.4
	U.S. imports (million dollars)	279	293	375	525	577	10.0
	Apparent U.S. consumption (million dollars)	821	821	914	1,066	1,118	4.9
	Trade balance (million dollars)	-104	-129	-220	-370	-429	-16.0
	Ratio of imports to consumption (percent)	34.0	35.7	41.0	49.2	51.6	4.9
	Ratio of exports to shipments (percent)	24.4	23.7	22.4	22.3	21.5	-3.6

See footnote(s) at end of table.

Table MT-4—Continued

Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 2001–2005

USITC code	Industry/commodity group	2001	2002	2003	2004	2005	Percent change, 2005 from 2004
MM077	Mineral processing machinery:						
	Number of establishments	240	236	232	228	224	-1.8
	Employees (thousands)	11.0	9.7	9.1	8.8	8.3	-5.7
	Capacity utilization (percent)	59	53	57	74	80	8.1
	U.S. shipments (million dollars)	2,221	2,127	2,145	2,244	2,342	4.4
	U.S. exports (million dollars)	582	485	545	669	811	21.3
	U.S. imports (million dollars)	576	565	627	797	1,034	29.8
	Apparent U.S. consumption (million dollars)	2,215	2,208	2,227	2,372	2,565	8.1
	Trade balance (million dollars)	6	-81	-82	-128	-223	-74.3
	Ratio of imports to consumption (percent)	26.0	25.6	28.1	33.6	40.3	19.9
	Ratio of exports to shipments (percent)	26.2	22.8	25.4	29.8	34.6	16.1
MM078	Farm and garden machinery and equipment:						
	Number of establishments	1,400	1,400	1,400	1,400	1,400	0.0
	Employees (thousands)	80.0	76.0	76.0	74.0	74.0	0.0
	Capacity utilization (percent)	67	67	70	70	70	0.0
	U.S. shipments (million dollars)	18,582	19,464	20,864	22,270	22,200	-0.3
	U.S. exports (million dollars)	4,565	4,747	5,109	6,098	6,885	12.9
	U.S. imports (million dollars)	3,602	3,898	4,645	6,216	6,900	11.0
	Apparent U.S. consumption (million dollars)	17,619	18,616	20,400	22,387	22,215	-0.8
	Trade balance (million dollars)	963	848	464	-117	-15	87.2
	Ratio of imports to consumption (percent)	20.4	20.9	22.8	27.8	31.1	11.9
	Ratio of exports to shipments (percent)	24.6	24.4	24.5	27.4	31.0	13.1
MM079	Industrial food-processing and related machinery:						
	Number of establishments	600	549	553	550	500	-9.1
	Employees (thousands)	19.0	19.0	19.0	21.0	22.0	4.8
	Capacity utilization (percent)	66	68	55	73	76	4.1
	U.S. shipments (million dollars)	2,335	2,580	2,620	2,841	2,983	5.0
	U.S. exports (million dollars)	576	606	558	601	710	18.1
	U.S. imports (million dollars)	537	570	684	758	839	10.7
	Apparent U.S. consumption (million dollars)	2,295	2,544	2,746	2,998	3,112	3.8
	Trade balance (million dollars)	40	36	-126	-157	-129	17.8
	Ratio of imports to consumption (percent)	23.4	22.4	24.9	25.3	27.0	6.7
	Ratio of exports to shipments (percent)	24.7	23.5	21.3	21.2	23.8	12.3

See footnote(s) at end of table.

Table MT-4—Continued

Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 2001–2005

USITC code	Industry/commodity group	2001	2002	2003	2004	2005	Percent change, 2005 from 2004
MM080	Pulp, paper, and paperboard machinery:						
	Number of establishments	305	290	275	261	245	-6.1
	Employees (thousands)	14.7	10.8	10.8	9.4	8.0	-14.9
	Capacity utilization (percent)	60	55	51	47	50	6.4
	U.S. shipments (million dollars)	2,640	1,990	1,938	1,688	14,361	750.8
	U.S. exports (million dollars)	678	560	648	662	660	-0.4
	U.S. imports (million dollars)	1,091	719	867	938	948	1.1
	Apparent U.S. consumption (million dollars)	3,054	2,149	2,157	1,964	14,650	646.0
	Trade balance (million dollars)	-414	-159	-219	-276	-289	-4.7
	Ratio of imports to consumption (percent)	35.7	33.4	40.2	47.8	6.5	-86.4
	Ratio of exports to shipments (percent)	25.7	28.1	33.4	39.2	4.6	-88.3
MM081	Printing and related machinery:						
	Number of establishments	499	456	485	485	485	0.0
	Employees (thousands)	18.0	14.0	15.0	15.0	15.0	0.0
	Capacity utilization (percent)	55	58	65	67	67	0.0
	U.S. shipments (million dollars)	3,192	2,879	2,895	3,269	3,691	12.9
	U.S. exports (million dollars)	1,232	1,136	1,215	1,300	1,443	11.0
	U.S. imports (million dollars)	1,929	2,001	4,844	5,802	6,340	9.3
	Apparent U.S. consumption (million dollars)	3,889	3,744	6,523	7,771	8,588	10.5
	Trade balance (million dollars)	-697	-865	-3,628	-4,502	-4,897	-8.8
	Ratio of imports to consumption (percent)	49.6	53.4	74.3	74.7	73.8	-1.2
	Ratio of exports to shipments (percent)	38.6	39.5	42.0	39.8	39.1	-1.8
MM082	Textile machinery:						
	Number of establishments	500	420	400	388	388	0.0
	Employees (thousands)	12.0	10.0	8.0	7.0	16.0	128.6
	Capacity utilization (percent)	(¹)	(¹)	31	32	35	9.4
	U.S. shipments (million dollars)	1,417	1,377	1,308	1,295	1,131	-12.7
	U.S. exports (million dollars)	897	871	810	897	991	10.6
	U.S. imports (million dollars)	1,411	1,314	1,316	1,410	1,561	10.7
	Apparent U.S. consumption (million dollars)	1,932	1,819	1,814	1,808	1,700	-6.0
	Trade balance (million dollars)	-515	-442	-506	-513	-569	-11.0
	Ratio of imports to consumption (percent)	73.1	72.2	72.5	78.0	91.8	17.7
	Ratio of exports to shipments (percent)	63.3	63.3	61.9	69.2	87.7	26.7

See footnote(s) at end of table.

Table MT-4—Continued

Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 2001–2005

USITC code	Industry/commodity group	2001	2002	2003	2004	2005	Percent change, 2005 from 2004
MM083	Metal rolling mills:						
	Number of establishments	80	79	79	79	79	0.0
	Employees (thousands)	3.0	3.0	2.0	2.0	2.0	0.0
	Capacity utilization (percent)	55	58	56	51	53	3.9
	U.S. shipments (million dollars)	538	500	480	440	460	4.5
	U.S. exports (million dollars)	210	169	182	243	314	29.2
	U.S. imports (million dollars)	180	163	210	150	207	38.5
	Apparent U.S. consumption (million dollars)	508	493	507	347	353	1.9
	Trade balance (million dollars)	30	7	-27	93	107	14.3
	Ratio of imports to consumption (percent)	35.4	33.0	41.3	43.2	58.7	35.9
	Ratio of exports to shipments (percent)	39.0	33.9	38.0	55.2	68.2	23.6
MM084	Metal cutting machine tools and machine tool accessories:						
	Number of establishments	600	400	370	330	300	-9.1
	Employees (thousands)	75.0	70.0	66.0	64.0	66.0	3.1
	Capacity utilization (percent)	63	60	60	65	70	7.7
	U.S. shipments (million dollars)	5,962	5,259	5,115	5,543	6,191	11.7
	U.S. exports (million dollars)	1,809	1,634	1,585	1,749	2,037	16.5
	U.S. imports (million dollars)	3,407	2,558	2,704	3,424	4,134	20.7
	Apparent U.S. consumption (million dollars)	7,560	6,183	6,233	7,217	8,288	14.8
	Trade balance (million dollars)	-1,598	-924	-1,118	-1,674	-2,097	-25.2
	Ratio of imports to consumption (percent)	45.1	41.4	43.4	47.4	49.9	5.3
	Ratio of exports to shipments (percent)	30.3	31.1	31.0	31.6	32.9	4.1
MM085	Metal forming machine tools:						
	Number of establishments	220	200	175	175	150	-14.3
	Employees (thousands)	20.0	15.0	14.0	14.0	13.0	-7.1
	Capacity utilization (percent)	50	48	49	61	62	1.6
	U.S. shipments (million dollars)	2,185	1,647	1,877	1,878	1,943	3.5
	U.S. exports (million dollars)	743	652	691	733	851	16.1
	U.S. imports (million dollars)	1,331	846	933	1,019	1,196	17.3
	Apparent U.S. consumption (million dollars)	2,773	1,841	2,119	2,164	2,288	5.7
	Trade balance (million dollars)	-588	-194	-242	-286	-345	-20.5
	Ratio of imports to consumption (percent)	48.0	46.0	44.0	47.1	52.3	11.0
	Ratio of exports to shipments (percent)	34.0	39.6	36.8	39.0	43.8	12.3

See footnote(s) at end of table.

Table MT-4—Continued

Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 2001–2005

USITC code	Industry/commodity group	2001	2002	2003	2004	2005	Percent change, 2005 from 2004
MM086	Non-metalworking machine tools:						
	Number of establishments	240	200	190	190	180	-5.3
	Employees (thousands)	40.0	35.0	35.0	37.0	37.0	0.0
	Capacity utilization (percent)	75	70	68	68	70	2.9
	U.S. shipments (million dollars)	6,023	5,230	5,166	5,635	5,747	2.0
	U.S. exports (million dollars)	807	768	711	1,083	1,110	2.5
	U.S. imports (million dollars)	1,276	1,242	1,330	1,626	1,694	4.2
	Apparent U.S. consumption (million dollars)	6,491	5,704	5,785	6,178	6,331	2.5
	Trade balance (million dollars)	-468	-474	-619	-543	-584	-7.5
	Ratio of imports to consumption (percent)	19.6	21.8	23.0	26.3	26.8	1.9
	Ratio of exports to shipments (percent)	13.4	14.7	13.8	19.2	19.3	0.5
MM087A	Semiconductor manufacturing machinery:						
	Number of establishments	405	400	400	419	405	-3.3
	Employees (thousands)	50.0	35.0	30.0	27.0	25.0	-7.4
	Capacity utilization (percent)	72	81	82	90	90	0.0
	U.S. shipments (million dollars)	12,200	12,200	11,100	13,400	11,580	-13.6
	U.S. exports (million dollars)	8,044	6,972	7,242	12,790	10,971	-14.2
	U.S. imports (million dollars)	3,947	3,304	2,750	3,586	3,857	7.6
	Apparent U.S. consumption (million dollars)	8,104	8,532	6,608	4,196	4,467	6.4
	Trade balance (million dollars)	4,096	3,668	4,492	9,204	7,113	-22.7
	Ratio of imports to consumption (percent)	48.7	38.7	41.6	85.5	86.4	1.1
	Ratio of exports to shipments (percent)	65.9	57.2	65.2	95.4	94.7	-0.7
MM088	Taps, cocks, valves, and similar devices:						
	Number of establishments	725	695	666	659	705	7.0
	Employees (thousands)	67.0	64.0	62.0	60.0	65.0	8.3
	Capacity utilization (percent)	70	68	64	64	62	-3.1
	U.S. shipments (million dollars)	11,450	11,221	10,772	10,825	11,583	7.0
	U.S. exports (million dollars)	3,351	3,202	3,329	3,685	4,235	14.9
	U.S. imports (million dollars)	4,809	5,156	5,500	6,738	7,589	12.6
	Apparent U.S. consumption (million dollars)	12,908	13,175	12,943	13,879	14,937	7.6
	Trade balance (million dollars)	-1,458	-1,954	-2,171	-3,054	-3,354	-9.8
	Ratio of imports to consumption (percent)	37.3	39.1	42.5	48.6	50.8	4.5
	Ratio of exports to shipments (percent)	29.3	28.5	30.9	34.0	36.6	7.6

See footnote(s) at end of table.

Table MT-4—Continued

Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 2001–2005

USITC code	Industry/commodity group	2001	2002	2003	2004	2005	Percent change, 2005 from 2004
MM089	Mechanical power transmission equipment:						
	Number of establishments	140	241	241	240	240	0.0
	Employees (thousands)	35.0	13.0	12.0	11.0	11.0	0.0
	Capacity utilization (percent)	53	53	53	64	64	0.0
	U.S. shipments (million dollars)	4,441	2,036	1,986	1,866	1,752	-6.1
	U.S. exports (million dollars)	939	936	1,054	1,197	1,398	16.8
	U.S. imports (million dollars)	2,004	1,994	2,222	2,638	3,252	23.3
	Apparent U.S. consumption (million dollars)	5,507	3,093	3,154	3,307	3,606	9.0
	Trade balance (million dollars)	-1,066	-1,057	-1,168	-1,441	-1,854	-28.6
	Ratio of imports to consumption (percent)	36.4	64.5	70.5	79.8	90.2	13.0
	Ratio of exports to shipments (percent)	21.1	46.0	53.1	64.1	79.8	24.5
MM090	Boilers, turbines, and related machinery:						
	Number of establishments	28	330	330	329	329	0.0
	Employees (thousands)	8.0	20.0	19.0	17.0	17.0	0.0
	Capacity utilization (percent)	60	54	62	70	70	0.0
	U.S. shipments (million dollars)	1,648	3,579	3,276	3,203	3,131	-2.2
	U.S. exports (million dollars)	1,106	892	875	909	1,124	23.6
	U.S. imports (million dollars)	1,204	1,514	881	839	1,098	30.8
	Apparent U.S. consumption (million dollars)	1,746	4,201	3,282	3,133	3,105	-0.9
	Trade balance (million dollars)	-98	-622	-6	70	26	-63.2
	Ratio of imports to consumption (percent)	68.9	36.0	26.8	26.8	35.4	32.1
	Ratio of exports to shipments (percent)	67.1	24.9	26.7	28.4	35.9	26.4
MM091	Electric motors, generators, and related equipment:						
	Number of establishments	505	597	597	597	598	(³)
	Employees (thousands)	95.0	55.0	49.0	47.0	47.0	0.0
	Capacity utilization (percent)	61	60	62	75	75	0.0
	U.S. shipments (million dollars)	20,540	9,142	9,271	10,178	11,174	9.8
	U.S. exports (million dollars)	4,691	3,923	4,031	4,673	5,114	9.4
	U.S. imports (million dollars)	7,646	7,177	6,811	7,020	8,533	21.6
	Apparent U.S. consumption (million dollars)	23,494	12,397	12,051	12,524	14,594	16.5
	Trade balance (million dollars)	-2,954	-3,255	-2,780	-2,346	-3,420	-45.7
	Ratio of imports to consumption (percent)	32.5	57.9	56.5	56.0	58.5	4.5
	Ratio of exports to shipments (percent)	22.8	42.9	43.5	45.9	45.8	-0.2

See footnote(s) at end of table.

Table MT-4—Continued

Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 2001–2005

USITC code	Industry/commodity group	2001	2002	2003	2004	2005	Percent change, 2005 from 2004
MM092	Electrical transformers, static converters, and inductors:						
	Number of establishments	410	1,623	1,620	1,620	1,620	0.0
	Employees (thousands)	53.0	70.0	62.0	59.0	59.0	0.0
	Capacity utilization (percent)	48	48	49	61	61	0.0
	U.S. shipments (million dollars)	7,625	8,882	9,104	8,882	8,666	-2.4
	U.S. exports (million dollars)	2,436	1,784	1,767	1,805	1,895	5.0
	U.S. imports (million dollars)	5,134	4,707	4,680	5,496	5,973	8.7
	Apparent U.S. consumption (million dollars)	10,323	11,805	12,016	12,574	12,744	1.4
	Trade balance (million dollars)	-2,698	-2,923	-2,912	-3,692	-4,078	-10.5
	Ratio of imports to consumption (percent)	49.7	39.9	38.9	43.7	46.9	7.3
	Ratio of exports to shipments (percent)	31.9	20.1	19.4	20.3	21.9	7.9
MM093	Portable electric handtools:						
	Number of establishments	25	128	128	127	127	0.0
	Employees (thousands)	8.0	12.0	11.0	10.0	10.0	0.0
	Capacity utilization (percent)	80	75	70	65	64	-1.5
	U.S. shipments (million dollars)	2,080	3,576	3,271	2,771	2,348	-15.3
	U.S. exports (million dollars)	291	212	191	180	185	2.5
	U.S. imports (million dollars)	1,185	1,434	1,777	2,122	2,424	14.2
	Apparent U.S. consumption (million dollars)	2,974	4,798	4,857	4,713	4,587	-2.7
	Trade balance (million dollars)	-894	-1,222	-1,586	-1,942	-2,239	-15.3
	Ratio of imports to consumption (percent)	39.8	29.9	36.6	45.0	52.8	17.3
	Ratio of exports to shipments (percent)	14.0	5.9	5.8	6.5	7.9	21.5
MM094	Nonelectrically powered handtools and parts thereof:						
	Number of establishments	30	25	25	26	24	-7.7
	Employees (thousands)	13.0	12.0	11.0	11.0	10.0	-9.1
	Capacity utilization (percent)	75	75	75	61	60	-1.6
	U.S. shipments (million dollars)	1,916	1,840	2,119	2,268	2,050	-9.6
	U.S. exports (million dollars)	563	549	578	907	1,264	39.4
	U.S. imports (million dollars)	901	961	992	1,235	1,396	13.0
	Apparent U.S. consumption (million dollars)	2,254	2,252	2,533	2,596	2,182	-16.0
	Trade balance (million dollars)	-338	-412	-414	-328	-132	59.9
	Ratio of imports to consumption (percent)	40.0	42.7	39.1	47.6	64.0	34.5
	Ratio of exports to shipments (percent)	29.4	29.8	27.3	40.0	61.7	54.3

See footnote(s) at end of table.

Table MT-4—Continued

Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 2001–2005

USITC code	Industry/commodity group	2001	2002	2003	2004	2005	Percent change, 2005 from 2004
MM095	Electric lamps (bulbs) and portable electric lights:						
	Number of establishments	110	320	319	319	320	(³)
	Employees (thousands)	20.0	54.4	48.2	48.0	48.0	0.0
	Capacity utilization (percent)	66	62	67	63	64	1.6
	U.S. shipments (million dollars)	3,300	9,775	9,103	9,554	10,028	5.0
	U.S. exports (million dollars)	799	750	721	786	859	9.4
	U.S. imports (million dollars)	1,785	1,687	1,748	2,094	2,202	5.1
	Apparent U.S. consumption (million dollars)	4,286	10,712	10,131	10,863	11,370	4.7
	Trade balance (million dollars)	-986	-937	-1,028	-1,309	-1,342	-2.6
	Ratio of imports to consumption (percent)	41.7	15.8	17.3	19.3	19.4	0.5
	Ratio of exports to shipments (percent)	24.2	7.7	7.9	8.2	8.6	4.9
MM096	Welding and soldering equipment:						
	Number of establishments	240	225	200	190	180	-5.3
	Employees (thousands)	12.0	16.0	16.0	17.0	18.0	5.9
	Capacity utilization (percent)	57	50	41	76	77	1.3
	U.S. shipments (million dollars)	2,137	2,749	2,815	3,055	3,200	4.7
	U.S. exports (million dollars)	703	635	618	818	872	6.6
	U.S. imports (million dollars)	803	761	996	1,088	1,054	(³)
	Apparent U.S. consumption (million dollars)	2,238	2,875	3,193	3,325	3,382	1.7
	Trade balance (million dollars)	-101	-126	-378	-270	-182	32.6
	Ratio of imports to consumption (percent)	35.9	26.5	31.2	32.7	31.2	-4.6
	Ratio of exports to shipments (percent)	32.9	23.1	22.0	26.8	27.3	1.9
MM097	Nonautomotive insulated electrical wire and related products:						
	Number of establishments	500	323	323	324	324	0.0
	Employees (thousands)	85.0	26.0	25.0	23.0	24.0	4.3
	Capacity utilization (percent)	71	61	64	68	68	0.0
	U.S. shipments (million dollars)	15,000	6,889	6,921	7,528	8,189	8.8
	U.S. exports (million dollars)	3,286	2,856	2,660	2,936	3,202	9.1
	U.S. imports (million dollars)	3,203	3,076	3,208	3,903	4,693	20.3
	Apparent U.S. consumption (million dollars)	14,917	7,109	7,469	8,494	9,680	14.0
	Trade balance (million dollars)	83	-220	-548	-966	-1,491	-54.3
	Ratio of imports to consumption (percent)	21.5	43.3	43.0	45.9	48.5	5.7
	Ratio of exports to shipments (percent)	21.9	41.5	38.4	39.0	39.1	(³)

See footnote(s) at end of table.

Table MT-4—*Continued***Machinery sector: Profile of U.S. industry and market, by industry/commodity groups and subgroups, 2001–2005**

USITC code	Industry/commodity group	2001	2002	2003	2004	2005	Percent change, 2005 from 2004
MM099	Molds and molding machinery:						
	Number of establishments	3,070	3,079	3,079	3,079	3,000	-2.6
	Employees (thousands)	69.0	65.0	60.0	60.0	58.0	-3.3
	Capacity utilization (percent)	46	61	58	66	64	-3.0
	U.S. shipments (million dollars)	8,353	8,800	8,266	8,680	8,419	-3.0
	U.S. exports (million dollars)	1,791	1,605	1,550	1,833	2,074	13.2
	U.S. imports (million dollars)	2,803	2,969	3,262	3,525	4,035	14.5
	Apparent U.S. consumption (million dollars)	9,365	10,163	9,978	10,371	10,379	⁽³⁾
	Trade balance (million dollars)	-1,012	-1,363	-1,712	-1,691	-1,960	-15.9
	Ratio of imports to consumption (percent)	29.9	29.2	32.7	34.0	38.9	14.4
	Ratio of exports to shipments (percent)	21.4	18.2	18.8	21.1	24.6	16.6

¹ Not available.² Not meaningful.³ Less than 0.05 percent.

Note.—Calculations based on unrounded data.

Source: These data have been estimated by the Commission's international trade analysts on the basis of primary and secondary data sources including discussions with various Government and industry contacts. These estimated data are subject to change either from secondary sources or from detailed surveys the Commission often conducts in the course of statutory investigations or other work. Further, these data may undergo adjustments based on revisions in tariff nomenclature, classification practices, or redefinitions of industry classes.